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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,324	12/23/2003	Eric Apps	012244-369099	5560

27155 7590 04/19/2007  
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EXAMINER
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PONIKIEWSKI, TOMASZ

ART UNIT	PAPER NUMBER
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2165

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/19/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/743,324	APPS ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Tomasz Ponikiewski	2165	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 26 January 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 17-23, 25-28, 30-34 and 36-48 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 17-23, 25-28, 30-34 and 36-48 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. Amendment filed on January 26, 2007 is acknowledged. Claim 29 has been canceled. Claims 37- 48 have been added. Claims 17-23; 25-28, 30-34 and 36-48 are therefore pending.
2. The correction to specification is acknowledged.
3. The amendment filed on January 26, 2007 corrected the objections and rejections under 112 2<sup>nd</sup>.

### ***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 17 and 37 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claims 17 and 37 recite limitation "presentation definition identification" which has not been found in the specification. The response filed on 1/26/07 equates the limitation to "locator". The examiner does not see how the terms are equivalent.

Claim 37 recites limitation "wherein the customer attributes are name-value pairs". The Examiner could not find support for the limitation in the specification.

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 17, 34 and 37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 17 and 37 presents a limitation "presentation definition identification". According to the remarks mailed 1/26/07 the limitation has been equated to "locator" which contradicts previously submitted claims. The examiner does not see the equivalency.

Claim 34 recites the limitation "means for communication". The examiner is not sure what or who communicates in this instance.

***Claim Rejections - 35 USC § 103***

Art Unit: 2165

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 17-23, 25-28, 30-34, 36-38, and 41-48 are rejected under 35

U.S.C. 103(a) as being unpatentable over Thearling (US 6,240,411 B1) in view of Wilkinson et al. (US 2002/0174182 A1)

As per claim 17, Thearling is directed to a data mining system for delivering presentations associated with data mining models, said data mining system comprising:  
a repository to store said data mining models, customer attributes, and presentation definitions (fig. 3, #30);

means to edit said data mining models, said presentation definitions, and said customer attributes (column 2, lines 54-61; column 9, lines 60-67; column 10, lines 1-7; column 11, lines 12-14);

means to generate a presentation to deliver to a customer system; wherein said means to generate includes an analytic decision engine system including model presentation services and scoring services modules (figure 10b, #100; column 9, lines 60-67; column 10, lines 1-7); and,

means to receive inputs from said customer system and to deliver said presentation to said customer system (column 5, lines 1-7);

wherein said means to generate selects a presentation definition using said presentation definition identification and selects a customer attribute using said customer identification; wherein said presentation definition includes a reference to a data mining model (column 8, lines 34-43); and,

Thearling does not teach wherein said inputs include a customer identification and a presentation definition identification

Wilkinson et al. teaches wherein said inputs include a customer identification and a presentation definition identification (Wilkinson et al., paragraph 0032, second column, lines 6-8; paragraph 0037, second column, lines 10-11).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the Thearling by teachings of Wilkinson et al. to include wherein said inputs include a customer identification and a presentation definition identification because recording user information is well known in the art.

Thearling does not teach wherein said means to generate applies said data mining model to said customer attribute to produce an outcome for display in said presentation according to a format included in said presentation definition.

Wilkinson et al. teaches wherein said means to generate applies said data mining model to said customer attribute to produce an outcome for display in said presentation according to a format included in said presentation definition (Wilkinson et al., paragraph 0036, lines 24-29; paragraph 0039, lines 5-8; paragraph 0045, lines 10-11).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the Thearling by teachings of Wilkinson et al. to include said means to generate applies said data mining model to said customer attribute to produce an outcome for display in said presentation according to a format included in said presentation definition because using formatting makes reading of the results easier and more efficient (Wilkinson et al., paragraph 0025).

As per claim 18 Thearling as modified is directed to wherein said data mining models include one or more of simple scores, complex scores, static scores, and dynamic scores, rules, rules sets, and rules systems (Wilkinson et al., paragraph 0024, lines 7-9; wherein the "logical rules" could encompass all recited limitations).

As per claim 19 Thearling as modified is directed to wherein said presentation definitions include defined sets of content including one or more of references to said data mining models, scores, rules, said customer attributes, activity suggestions, to do lists, pop-up windows, HTML segments, and XML scripts (Wilkinson et al., paragraph 0033, lines 9-12 wherein "time" could mean an "attribute").

As per claim 20 Thearling as modified is directed to wherein said presentations include one or more of simple presentations, range based presentations, and complex presentations (Wilkinson et al., paragraph, 0022; paragraph 0023, lines 11-14; paragraph 0024, second column, lines 2-8).

As per claim 21 Thearling as modified is directed to wherein said repository is a database having a database schema and a database management system (Wilkinson et al., paragraph 0032, second column, lines 4-5).

As per claim 22 Thearling as modified is directed to wherein said means to edit said data mining models, said presentation definitions, and said customer attributes includes a data mining console system (Thearling; column 2, lines 54-61; column 9, lines 60-67; column 10, lines 1-7; column 11, lines 12-14).

As per claim 23 Thearling as modified is directed to wherein said means to edit said data mining models, said presentation definitions, and said customer attributes includes one or more of text editors, scripting tools, web development tools, and HTML editors (Thearling, column 1, lines 65-67, column 2, lines 1-11).

As per claim 25 Thearling as modified is directed to wherein said means to receive inputs from said customer system and to deliver said presentations to said customer system includes a network (Wilkinson et al., paragraph 0032, second column, lines 14-15; paragraph 0032, second column, lines 30-34; paragraph 0040, lines 5-10).

As per claim 26 Thearling as modified is directed to wherein said customer system includes one or more data mining management consoles integrated with or



Art Unit: 2165

connected over a network (Wilkinson et al., paragraph 0031, line 5; paragraph 0046, line 9).

As per claim 27 Thearling as modified is directed to herein said customer system includes one or more applications running on a computer, system, or other appliance integrated with or connected over a network (Wilkinson et al., figure 2B, number 238, 232; paragraph 0046).

As per claim 28 Thearling as modified is directed to wherein said customer system includes one or more thin or thick clients in a client-server or browser-server environment integrated with or connected over a network (Wilkinson et al., paragraph 0046, line 9).

As per claim 30 Thearling as modified is directed to wherein said inputs include one or more of said customer attributes (Wilkinson et al., paragraph 0032, second column, lines 6-8; paragraph 0037, second column, lines 10-11).

As per claim 31 Thearling as modified is directed to wherein said data mining system includes one or more reporting systems (Wilkinson et al., paragraph 0021, page 3, lines 7-9).

As per claim 32 Thearling as modified is directed to wherein said reporting systems include one or more of outcome monitoring systems and presentation usage monitoring systems (Wilkinson et al., paragraph 0021, page 3, lines 7-13).

As per claim 33 Thearling as modified is directed to wherein said reporting systems provide one or more of said inputs (Wilkinson et al., paragraph 0021, page 3, lines 10-13; paragraph 0033, lines 14-21).

As per claim 34 Thearling as modified is directed to wherein said data mining system includes one or more of servers, memory devices, processing units, input devices, output devices, display devices, and means for communications (Wilkinson et al., paragraph 0046).

As per claim 36 Thearling as modified is directed to wherein said network is an Internet network (Wilkinson et al., paragraph 0046, line 9).

As per claim 37 Thearling is directed to a method for generating presentations of outcomes associated with data mining models for display on a display screen, comprising:

storing one or more presentation definitions in a repository; wherein the presentation definitions contain one or more rules, one or more references to data mining models; wherein the customer attributes are name-value pairs; wherein the data

Art Unit: 2165

mining models generate scores based on one or more of the customer attributes; and, wherein the rules are for branching on one or more of the scores and the customer attributes to choose between outcomes (fig 3, #30; column 3, lines 65-67; column 8, lines 48-50; column 8, lines 34-43) ;

receiving a request for a presentation for an outcome, the request including a presentation definition identification and one or more of a customer identification and one or more customer attributes; wherein the presentation definition identification is a key to a presentation definition stored in the repository; and, wherein the customer identification is a key to one or more customer attributes stored in the repository (column 5, lines 9-38);

in response to the request, retrieving a presentation definition from among the one or more presentation definitions using the presentation identification and retrieving one or more of the customer attributes from the repository using the customer identification (column 8, lines 34-43);

generating one or more scores from the data mining models referenced by the presentation definition using one or more of the customer attributes provided by the request or retrieved from the repository (fig. 10b #100; column 9, lines 60-67; column 10, lines 1-7);

determining the outcome by applying one or more rules in the presentation definition to one or more of the scores and the customer attributes (column 2, lines 12-23); and,

Art Unit: 2165

Thearling does not teach formatting the presentation for the outcome for display on the display screen using the formatting information contained in the presentation definition.

Wilkinson et al. teaches formatting the presentation for the outcome for display on the display screen using the formatting information contained in the presentation definition (Wilkinson et al., paragraph 0036, lines 24-29; paragraph 0039, lines 5-8; paragraph 0045, lines 10-11).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the Thearling by teachings of Wilkinson et al. to include formatting the presentation for the outcome for display on the display screen using the formatting information contained in the presentation definition because using formatting makes reading of the results easier and more efficient (Wilkinson et al., paragraph 0025).

Thearling does not teach one or more references to customer attributes;

Wilkinson et al. teaches one or more references to customer attributes (Wilkinson et al., paragraph 0032, second column, lines 6-8; paragraph 0037, second column 10-11).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the Thearling by teachings of Wilkinson et al. to include one or more references to customer attributes because using and/or recording user information is well known in the art.

Thearling does not teach wherein the presentation definitions have respective formatting information for formatting presentations of outcomes

Wilkinson et al. teaches wherein the presentation definitions have respective formatting information for formatting presentations of outcomes (Wilkinson et al., paragraph 0036, lines 24-29; paragraph 0039, lines 5-8; paragraph 0045, lines 10-11).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the Thearling by teachings of Wilkinson et al. to include wherein the presentation definitions have respective formatting information for formatting presentations of outcomes because using formatting makes reading of the results easier and more efficient (Wilkinson et al., paragraph 0025).

As per claim 38 Thearling as modified is directed to wherein the data mining models are one or more of a logistic regression, a decision tree, a neural network, a Bayesian network, a linear regression, a cluster model, a K-Means cluster model, an expectation maximizing cluster model, and an association rule (Thearling; column 8, lines 19-23).

As per claim 41 Thearling as modified is directed to further comprising importing the data mining models and presentation definitions into the repository (Thearling; fig. 6, #62; fig 6, #64).

As per claim 42 Thearling as modified is directed to further comprising receiving updated data mining models and updated presentation definitions to replace the data mining models and presentation definitions in the repository (Thearling; fig. 2; fig. 9, #92).

As per claim 43 Thearling as modified is directed to further comprising receiving the one or more rules for the presentation definition (Thearling; column 8, lines 34-43).

As per claim 44 Thearling as modified is directed to wherein the scores are one or more of simple scores, complex scores, static scores, and dynamic scores (Wilkinson et al., paragraph 0024, lines 7-9; wherein the "logical rules" could encompass all recited limitations).

As per claim 45 Thearling as modified is directed to herein the outcomes provide one or more of defined sets of content, data mining model scores, activity suggestions, to-do lists, pop-up windows, HTML segments, extensible markup language (XML) scripts, and sets of computer instructions (Wilkinson et al., paragraph 0033, lines 9-12 wherein "time" could mean an "attribute").

As per claim 46 Thearling as modified is directed to herein the outcomes are one or more of simple messages, range based messages, and complex messages

(Wilkinson et al., paragraph, 0022; paragraph 0023, lines 11-14; paragraph 0024, second column, lines 2-8)..

As per claim 47 Thearling as modified is directed to wherein the request is received over a network (Wilkinson et al., paragraph 0032, second column, lines 14-15; paragraph 0032, second column, lines 30-34; paragraph 0040, lines 5-10).

As per claim 48 Thearling as modified is directed to wherein the network is an Internet network (Wilkinson et al., paragraph 0046, line 9).

10. Claim 39 is rejected under 35 U.S.C. 103(a) as being unpatentable over Thearling (US 6,240,411 B1) in view of Wilkinson et al. (US 2002/0174182 A1) and further is view of Tuzhilin (US 6,236,978 B1).

As per claim 39 Thearling as modified still does not teach wherein the customer attributes are one or more of age information and sex information.

Tuzhilin teaches wherein the customer attributes are one or more of age information and sex information (Tuzhilin; column 3, lines 43-45)..

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the Thearling as modified by teachings of Tuzhilin to include the customer attributes are one or more of age information and sex information because recording and using user information is well known in the art.

11. Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Thearling (US 6,240,411 B1) in view of Wilkinson et al. (US 2002/0174182 A1) and further in view of Johnson (US 2001/0037346 A1).

As per claim 40 Thearling as modified still does not teach wherein the formatting information is markup language formatting information.

Johnson teaches the formatting information is markup language formatting information (Johnson; paragraph 0026, lines 13-17).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the Thearling as modified by teachings of Johnson to include the formatting information is markup language formatting information because using markup languages is a useful way to tag data (Johnson; paragraph 0026, lines 13-14).

### ***Response to Arguments***

12. Applicant's arguments with respect to claims 17-23, 25-28, 30-34 and 36-48 have been considered but are moot in view of the new ground(s) of rejection.

As per applicant's argument that Wilkinson et al. does not teach location is not found persuasive. In paragraph 0032 Wilkinson et al. teaches the instruction to a "touch point" which would be taken as location.



***Conclusion***

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed; and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.


14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tomasz Ponikiewski whose telephone number is (571)272-1721. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Gaffin can be reached on (571)272-4146. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2165

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Tomasz Ponikiewski  
April 16, 2007

  
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